Annual Review of Entomology
Volume 33, 1988

CONTENTS

USE OF HYBRIDOMA LIBRARIES IN THE STUDY OF THE GENETICS AND DEVELOPMENT OF *DROSOPHILA*, *Shinobu C. Fujita* 1

EVALUATING THE IPM IMPLEMENTATION PROCESS, *C. H. Wearing* 17

TRANSDUCTION MECHANISMS OF MECHANOSENSILLA, *Andrew S. French* 39

MOTH HEARING, DEFENSE, AND COMMUNICATION, *Hayward G. Spangler* 59

SEX PHEROMONES AND BEHAVIORAL BIOLOGY OF THE CONIFEROPHAGOUS *CHORISTONEURA*, *Peter J. Silk and L. P. S. Kuenen* 83

EVOLUTIONARY AND ECOLOGICAL RELATIONSHIPS OF THE INSECT FAUNA OF THISTLES, *H. Zwölfer* 103

BIOLOGY OF TIGER BEETLES, *David L. Pearson* 123

SUBLETHAL EFFECTS OF NEUROTOXIC INSECTICIDES ON INSECT BEHAVIOR, *Kenneth F. Haynes* 149

THE GENUS *PHLEBOVIRUS* AND ITS VECTORS, *Robert B. Tesh* 169

THE INFLUENCE OF ATMOSPHERIC STRUCTURE AND MOTIONS ON INSECT MIGRATION, *V. A. Drake and R. A. Farrow* 183

CHEMICAL ECOLOGY OF THE HETEROPTERA, *Jeffrey R. Aldrich* 211

BIOLOGICAL AND INTEGRATED PEST CONTROL IN GREENHOUSES, *J. C. van Lenteren and J. Woets* 239

SYSTEMATICS IN SUPPORT OF ENTOMOLOGY, *H. V. Danks* 271

LIPID TRANSPORT IN INSECTS, *Jeffrey P. Shapiro, John H. Law, and Michael A. Wells* 297

INSECT BEHAVIORAL ECOLOGY: Some Future Paths, *Theodore Burk* 319

VECTOR ASPECTS OF THE EPIDEMIOLOGY OF ONCHOCERCIASIS IN LATIN AMERICA, *A. J. Shelley* 337

(*continued*)

EXPERIMENTAL METHODS FOR EVALUATING ARTHROPOD NATURAL ENEMIES, *Robert F. Luck, B. Merle Shepard, and Peter E. Kenmore* 367

ASSOCIATIONS OF MESOSTIGMATA WITH OTHER ARTHROPODS, *Preston E. Hunter and Rose Marie T. Rosario* 393

ARTHROPOD REGULATION OF MICRO- AND MESOBIOTA IN BELOW-GROUND DETRITAL FOOD WEBS, *John C. Moore, David E. Walter, and H. William Hunt* 419

SPATIAL DENSITY DEPENDENCE IN PARASITOIDS, *Sandra J. Walde and William W. Murdoch* 441

REACTIVE PLANT TISSUE SITES AND THE POPULATION BIOLOGY OF GALL MAKERS, *Arthur E. Weis, Rod Walton, and Cathryn L. Crego* 467

HOST-PARASITE INTERACTION AND IMPACT OF LARVAL WATER MITES ON INSECTS, *Bruce P. Smith* 487

THE MAYFLY SUBIMAGO, *George F. Edmunds, Jr. and W. P. McCafferty* 509

INDEXES

Subject Index 531

Cumulative Index of Contributing Authors, Volumes 24–33 540

Cumulative Index of Chapter Titles, Volumes 24–33 543